

JOHANSSON
Serial No. 09/998,921

Atty Dkt: 2380-566
Art Unit: 2681

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning on page 5, line 23, and continuing to page 6, line 3, as follows:

During the synchronization procedure for the destination base station, a difficulty arises because there is an unknown propagation delay from the destination base station ~~and to the~~ mobile station, and an unknown propagation delay from the mobile station to the destination base station. The sum of these propagation delays is called the round-trip delay, and it determines the delay between the transmit timing of the destination base station and the time when the signal is received at the mobile station. Namely, the mobile station receives the signal transmitted from the destination base station after a certain propagation delay from the instant when the signal is transmitted. The transmitted signal from the mobile station is synchronized with the received signal at the mobile station, so the transmitted signal from mobile station is delayed with respect to the base station transmission. The additional propagation delay from mobile station to the base station makes the delay of the received signal at the base station equal to the round-trip propagation delay.

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Please amend the paragraph beginning on page 10, line 14, and continuing to page 10, line 23, as follows:

The present invention particularly concerns a soft handover situation such as that described above wherein, for a user equipment unit having ~~an~~ a leg of a connection already established with the source base station, a further leg of the connection is established with the destination base station. As explained previously, soft handover includes synchronization of the mobile station (MS) with the destination base station. Synchronization of the mobile station (MS) with the destination base station BS_D involves the searcher S at the destination base station BS_D (see Fig. 1B). The searcher S (also known herein as the synchronization searcher) employs a synchronization search window to detect, for synchronization purposes, a transmission of the mobile station (MS) during a handover of a connection to the destination base station BS_D .